

WHAT IS CLAIMED IS:

1. A fixing device comprising:

a heating roller brought into pressure contact with
a pressurizing roller, thereby fixing an unfixed developer,

5 the heating roller including:

a first heater for heating a central region of the
heating roller; and

a second heater for heating a side end region of
the heating roller on an outside of the central region,

10 wherein a peak of heat distribution of the first
heater is located at or near an side end of an image region.

2. The fixing device according to claim 1, wherein the
peak of heat distribution of the first heater is located

15 on an outside of the side end of the image region.

3. The fixing device according to claim 1, wherein the
first heater has a coil filament and a wire filament
provided alternately in the central region and has a
20 holding portion filament provided on the outside of the
image region.

4. A fixing device comprising:

a heating roller brought into pressure contact with
25 a pressurizing roller, thereby fixing an unfixed developer,

the heating roller including:

a first heater for heating a central region of the heating roller; and

a second heater for heating a side end region of
5 the heating roller on an outside of the central region,

wherein a peak of heat distribution of the first heater and a peak of heat distribution of the second heater are overlapped.

10 5. The fixing device according to claim 1, wherein the second heater has at least one holding portion filament and at least one wire filament provided alternately in the central region and has at least one coil filament and at least one wire filament provided alternately in
15 the side end region, and the peak of heat distribution of the second heater is generated by the coil filament.

6. The fixing device according to claim 5, wherein a plurality of the coil filaments are provided on the second
20 heater in the side end region, and a length of one of the coil filaments located on an outer side is greater than a length of another of the coil filaments located on an inner side.

25 7. The fixing device according to claim 1, wherein a

temperature sensor is provided near at least one end of the heating roller where the peak of heat distribution of the first heater is located.

5 8. The fixing device according to claim 1, wherein a temperature sensor is provided in a central part of the heating roller.

9. A fixing device comprising:

10 a heating roller brought into pressure contact with a pressurizing roller, thereby fixing an unfixed developer, the heating roller including:

a first heater for heating a central region of the heating roller; and

15 a second heater for heating a side end region of the heating roller on an outside of the central region,

wherein a temperature sensor for detecting a temperature of the heating roller is provided on a non-overlapping portion where a heating portion of the first heater and a holding portion of the second heater
20 are not overlapped.

10. The fixing device according to claim 9, wherein the temperature sensor is provided at a portion on the heating
25 portion in the non-overlapping portion.

11. The fixing device according to claim 9, wherein the temperature sensor is provided in a central part of the heating roller.

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12. A fixing device comprising:

a heating roller brought into pressure contact with a pressurizing roller, thereby fixing an unfixed developer, the heating roller including:

10 a first heater for heating a central region of the heating roller; and

a second heater for heating a side end region of the heating roller on an outside of the central region,

15 wherein a temperature sensor for detecting a temperature of the heating roller is provided on an overlapping portion where a heating portion of the first heater and a holding portion of the second heater are overlapped.

20 13. The fixing device according to claim 12, wherein the temperature sensor is provided on the heating portion of the second heater in the overlapping portion.

14. The fixing device according to claim 12, wherein
25 the temperature sensor is provided on an end of the heating

roller.

15. The fixing device according to claim 9, wherein the first heater includes the central region in which a heating portion formed by at least one coil filament and at least one wire filament are arranged alternately, and the side end region in which a holding portion formed by at least one holding portion filament and at least one wire filament are arranged alternately.

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16. The fixing device according to claim 9, wherein the second heater includes the central region in which a holding portion formed by at least one holding portion filament and at least one wire filament are arranged alternately, and the side end region in which a heating portion formed by at least one coil filament and at least wire filament are arranged alternately.

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17. The fixing device according to claim 16, wherein a plurality of the coil filaments are provided in the side end region, and a length of one of the coil filaments located on an outer side is greater than a length of another of the coil filaments located on an inner side.

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25 18. The fixing device according to claim 16, wherein

phases of the alternate arrangement of the holding portion filament and the wire filament and that of the coil filament and the wire filament are shifted from each other.

5 19. The fixing device according to claim 9, wherein a peak of heat distribution of the first heater and a peak of heat distribution of the second heater are overlapped in the side end region.

10 20. A fixing device comprising:

a heating roller brought into pressure contact with a pressurizing roller, thereby fixing an unfixed developer, the heating roller including:

15 a first heater for heating a central region of the heating roller; and

a second heater for heating a side end region of the heating roller on an outside of the central region,

20 wherein at least one holding filament and at least one wire filament are provided in the second heater with phases alternated with phases of at least one coil filament and at least one wire filament which are provided in the first heater alternately in the central region.

21. A fixing device comprising:

25 a heating roller brought into pressure contact with

a pressurizing roller, thereby fixing an unfixed developer,
the heating roller including:

a first heater for heating a central region of the
heating roller; and

5 a second heater for heating a side end region of
the heating roller on an outside of the central region,

wherein at least one holding filament of the second
heater provided in the central region is provided in a
position corresponding to at least one wire filament of
10 the first heater in the central region.

22. The fixing device according to claim 20, wherein
a peak of heat distribution of the first heater and a
peak of heat distribution of the second heater are
15 overlapped in the side end region.

23. The fixing device according to claim 20, wherein
the first heater has a holding portion filament provided
in the side end region, and the peak of heat distribution
20 in the first heater is generated by the holding portion
filament.

24. The fixing device according to claim 20, wherein
the second heater has at least one coil filament and at
25 least one wire filament provided alternately in the side

end region, and the peak of heat distribution in the second heater is generated by the coil filament.

25. The fixing device according to claim 24, wherein
5 a plurality of the coil filaments are provided on the second heater in the side end region, and a length of one of the coil filaments located on an outer side is greater than a length of another of the coil filaments located on an inner side.

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26. An image forming apparatus comprising the fixing device according to claim 1.